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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mounig G. Bawendi *et al.*

Art Unit : Unknown

Serial No. : 09/832,959

Examiner : Unknown

Filed : April 12, 2001

Title : BIOLOGICAL APPLICATIONS OF QUANTUM DOTS

Commissioner for Patents
Washington, D.C. 20231

Pre Amendt

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PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the claims:

Amend claim 46 and 47 as follows:

--46. A method of detecting an interaction between a composition and a biological moiety comprising:

providing a composition capable of a characteristic spectral emission, the composition comprising a compound; a semiconductor nanocrystal associated with the compound; and

allowing a sample comprising a biological moiety to interact with the composition; and

detecting the interaction of the biological moiety by monitoring the spectral emission of the composition.--

--47. The method of claim 46, wherein monitoring the spectral emission occurs in assays selected from the group consisting of: immunochemistry, immunocytochemistry, immunobiology, immunofluorescence, DNA sequence analysis, fluorescence resonance energy transfer, flow cytometry, fluorescence activated cell sorting, diagnostics in biological systems, and high-throughput screening.--

Add claims 49-95 as follows:

07/05/2001 BNGUYEN1 00000103 09832959

01 FC:102
02 FC:103

160.00 OP
522.00 OP